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B-TC-RB730-0-1	FIELD MAINTENANCE PRINT SET MP01278
B-DD-RB730-0	11730 DISK CONTROLLER - DWG. DIRECTORY
K-PL-RB730-0-DBP	11730 DISK CONTROLLER - PARTS LIST
B-DD-M8388-0	INTEGRATED DISK CONTROLLER - DWG. DIRECTORY
D-UA-M8388-0-0	INTEGRATED DISK CONTROLLER - ASSEMBLY
K-PL-M8388-0-DBP	INTEGRATED DISK CONTROLLER - PARTS LIST
D-EC-5014452-0-0	INTEGRATED DISK CONTROLLER - ETCH CUT DWG.
D-BD-M8388-0-0	INTEGRATED DISK CONTROLLER - BLOCK DIAGRAM
D-CS-M8388-0-X (COMPLETE)	INTEGRATED DISK CONTROLLER - CIRCUIT SCHEM.
A-PL-7012938-0-0	UNIT SELECT PLUG KIT

[illegible]

PRINT SET ORDER  
NO. MPO1278

REVISIONS	REV		USED ON OPTION/MODEL		DRN.	DATE	<div>digital</div> <div>TITLE: 11730 DISK CONTROLLER FIELD MAINT. PRINT SET</div>										
	CHG. NO.		11730		A.ROCHA	16APR82											
	DATE					CHK'D	DATE	<div>SIZE <b>B</b></div> <div>CODE <b>TC</b></div> <div>NUMBER RB730-0-1</div> <div>REV. A</div> <div>DIST.</div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div>									
						<i>RP</i>	20APR82										
						PROJ. ENG.	DATE										
						<i>DMhandy</i>	20APR82										
						FIELD SERV.	DATE										
						<i>L. Hunter</i>	21APR82										
			SHEET 1 OF 1														

SIZE	CODE	NUMBER	REV.

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[illegible]

REVISIONS	REV.		USED ON OPTION/MODEL	DRN.	A. ROCHA	DATE	16APR82	TITLE <div>digital</div> 11730 DISK CONTROLLER									
	CHANGE NO.			CHK'D.	<i>P Morin</i>	DATE	20 APR 82										
	CHK			PROJ. ENG.	<i>DM Handrey</i>	DATE	20 APR 82										
				PROD.	<i>S. A. Castiglione</i>	DATE	21 APR 82	SIZE	CODE	NUMBER				REV			
	SHEET 1 OF 2							B	DD	RB730-0				A			
								DIST.									



AUTOMATED BY PRTLST.33P(44)

PARTS LIST

SHEET A1 OF A1

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QUANTITY PER VARIATION
1	1	B-DD-MS388-0)	M8388-00	RB730 IDC (INTEGRATED DISK CONTR	1
2	2	A-PL-7012938-0-0	7012938-00	70-12938 UNIT SELECT PLUG KIT	1
***** UNDERGQING CHANGE *****					

REVISION HISTORY		BASIC PART NO: RB730		DRN: R.J. RILEY		DATE: 13-APR-82		D I G I T A L	
ENG	ECO NUMBER	REV	SECTION A OF A	CHK'D: R.J. RILEY		DATE: 13-APR-82		TITLE PARTS LIST	
	INITIAL	A	SECTION. VARIATION INDEX	DES.ENG.: D. LANDRUM		DATE: 13-APR-82		11730 DISK CONTROLLER	
			[A] 00	[B]					
			[C]	RESP.ENG.: D. MILLER		DATE: 13-APR-82		DOCUMENT NUMBER	
			[D]	MFG.ENG.: S. CASTIGLIONE		DATE:		SIZE CODE NUMBER REV	
			[E]	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		K PL RB730-0-DBP A	
			[F]			#B-DD-RB730-0		FILE NAME: Z4258A.PLS EDIT # 3	
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DRAWING NO.	NO. OF SHTS.	PART NO.	DESCRIPTION	REVISIONS																	
			MODULE REVISION	A																	
B-DD-M8388-0	1		IDC	A																	
D-UA-M8388-0-0	2		IDC	A																	
D-EG-5014452-0-0	3		ETCH CUT DRAWING	A																	
D-MD-5014452-0-0	5		DRILL & ETCH DRAWING	A																	
KPL-M8388-0-DBP	3		PL DATA BASE	A																	
KPGM8388-0-DBC			PC DATA BASE	B																	
KCS-M8388-0-DBS			CS DATA BASE	A																	
		5014452	ETCHED BOARD	B																	
DCSM8388-0-IDCA	1	*	RLO2 DATA SEPARATOR	A																	
D-CS-M8388-0-IDCB	1	*	DSR, ADPS CNTR, R00 STATUS	A																	
D-CS-M8388-0-IDCC	1	*	IDCE PLOAD OUTREG B0 L	A																	
D-CS-M8388-0-IDCD	1	*	RLO2 MEM ENCODING	A																	
D-CS-M8388-0-IDCE	1	*	PORTBUS INTERFACE	A																	
D-CS-M8388-0-IDCF	1	*	DAR, ECC, XCVRS	A																	
D-CS-M8388-0-IDCH	1	*	CONTROL STATUS REGISTER	A																	
D-CS-M8388-0-IDCJ	1	*	CLOCK SYNC & INTERRUPT	A																	
D-CS-M8388-0-IDCK	1	*	MICROSEQUENCER	A																	
D-CS-M8388-0-IDCL	1	*	RLO2, R90 DRIVERS	A																	
D-CS-M8388-0-IDCM	1	*	RLO2, R80 RECEIVERS	A																	
D-CS-M8388-0-IDCN	1	*	DISK CABLE CONNECTORS	A																	
			3V DIVIDER NETWORK																		
DCSM8388-0-IDCF	1	*	IDC BYPASS FILTER CAPS	A																	
D-BD-M8388-0-0	1	*	BLOCK DIAGRAM	A																	

NOTES: \* CONTROL SOURCE IS DATA BASE  
NO CONTROLLED PAPER ORIGINALS EXIST

REVISIONS	REV.																				
	CHG NO.																				
REVISIONS	DATE																				

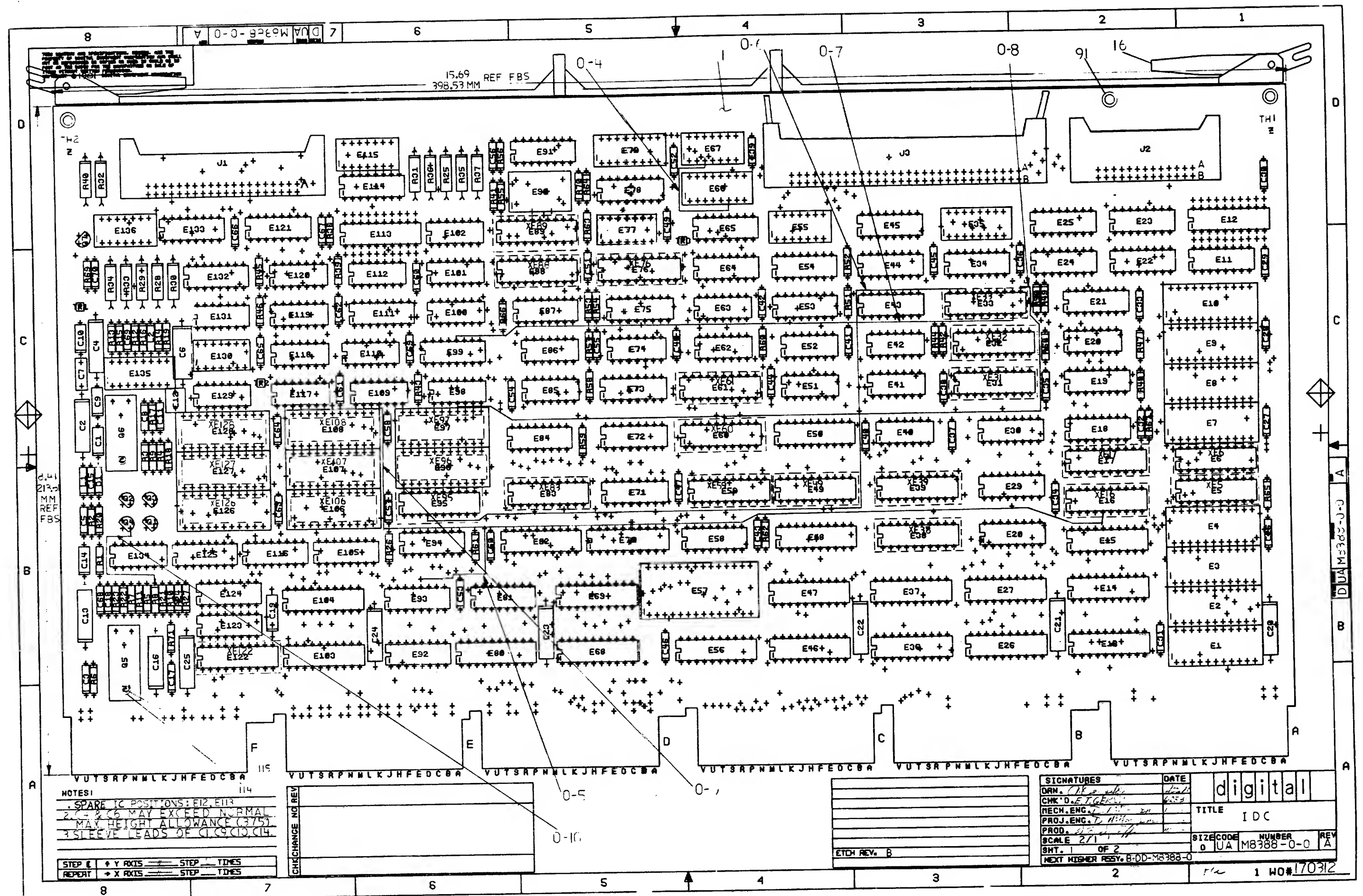
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USED ON OPTION/MODEL		DRN.	8-10-81	TITLE	
NEBULA		CHK'D	8-10-81	I D C	
		ENG.	D. Miller DML 11/13/81	SIZE	CODE
		PROD.	W. B. Dwyer 11/13/81	B	DD
				NUMBER	REV.
				M8388 - 0	A
				SHEET	OF
				1	1

TH



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A 0-0-88388W

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## REWORK INSTRUCTIONS:

WIRE ADDS SIDE 1

- 0-4 FROM E67-03 TO E66-06
- 0-5 FROM PTH NEAR E93-12 TO PTH BETWEEN R61 & C50
- 0-6 FROM E95-04 TO E33-18
- 0-7 FROM E33-09 TO E99-12
- 0-8 FROM E97-15 TO E33-11
- 0-9 FROM E109-02 TO E16-05
- 0-10 FROM COLLECTOR OF Q4 TO TOP OF R8

D

D

C

C

B

B

A

A

DUA M8388-0-0 A

REVISION HISTORY		
DATE	ECO NUMBER	REV.

DIB 137A

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2

1

TITLE

IDC

DOCUMENT NUMBER

DUA M8388-0-0 A

SCALE NONE SHEET 2 OF 2



AUTOMATED BY PRTLST.3P(44)

# PARTS LIST

SHEET A1 OF A3

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY	PER VARIATION	REFERENCE DESIGNATOR
1	1	D-MD-5014452-0-0	5014452-00	DRILL AND ETCH M9388	1		
2	2		1000022-00	270.0 MMF 100V 5%200PPM MICA	1		C7
3	3		1001776-00	1 MFD 35V 10% S.TANT	1		C19
4	4		1010546-00	.015 MFD 50V 2% M.POLYCARB	1		C6
5	5		1012784-00	.047 MFD 50V +50-20% CER	49		C3, C8, C17, C18, C25-C70
6	6		1013456-02	18.0 MMF 50V 5% CER	1		C11
7	7		1013466-08	680.0 MMF 50V 10% X7R CER	2		C5, C15
8	8		1013466-11	.22 MFD 50V +80-20% Z5U CER	4		C1, C9, C10, C14
9	9		1016628-00	7.0 MMF TO 30.0 MMF TRIMMER	1		C12
10	10		1017472-00	10 MFD 35V +50-10% AL EL	10		C2, C4, C13, C16, C20-C25
11	11		1111577-00	1N 4454 TR= 4NS PIV= 50 S	1		D1
12	12		1209341-02	HEADER 100 40POS RT ANGLE	1		J1
13	13		1209941-03	HEADER 26POS RT ANGLE RCPT	1		J2
14	106		1215006-04	SKT, IC 20PIN DIP TIN PLATE	19		J3
15	105		1215006-05	SKT, IC 22PIN DIP TIN PLATE	8		CONT XE33, XE49, XE75, XE5, XE6, XE15, XE60, XE61, XE89, XE89, XE93, XE17, XE32, XE83, XE39, XE59, XE122, XE39, XE31, XE95, XE97, XE105-XE108, XE126-XE128
16	15		1216932-04	HEADER 50POS WITH LATCHES	1		J3
17	16		1216933-02	HANDLE MODULE, HEX TWO EJECTORS	1		
18	17		1300005-02	R NETWORK 13-5.3K 5.0 % 14PIN	2		E55, E57
19	18		1300005-04	R NETWORK 15-470 5.0 % 16PIN	1		E125
20	19		1300005-05	R NETWORK 13-92 5.0 % 14PIN	2		E115, E135
21	20		1300005-09	R NETWORK 15-55 5.0 % 16PIN	3		E35, E55, E79
22	21		1300229-00	100.0 .25 W 5.0 % CC	15		R3, R4, R9, R59-R71
23	22		1300255-00	330.0 .25 W 5.0 % CC	9		R25, R45, R48, R50, R52, R54, R55, R59, R44
24	23		1300316-00	470.0 .25 W 5.0 % CC	2		R18, R23
25	24		1300365-00	1.0 K .25 W 5.0 % CC	2		R24, R38

REVISION HISTORY		BASIC PART NO: M9388		DRN: J CASY		DATE: 17-NOV-81		D I G I T A L	
ENG:	ECO NUMBER	REV	SECTION A OF A	CHK'D:	E.T.GERRY	DATE:	17-NOV-81	TITLE PARTS LIST	
	INITIAL	A	SECTION VARIATION INDEX					IDC	
R.D.	M8399-TW001	B	(A) 00						
			(B)	DES.ENG:	DAVE MILLER	DATE:	17-NOV-81		
			(C)	RESP.ENG.:	DAVE MILLER	DATE:	17-NOV-81		
			(D)					DOCUMENT NUMBER	
			(E)					SIZE CODE NUMBER REV	
			(F)	MFG.ENG.:	W WYCKOFF	DATE:	17-NOV-81	K	PL M8399-0-DBP 8
			(G)	ASSEMBLY NUMBER:		TOP DOCUMENT NUMBER:		FILE NAME:	EDIT #
			(H)	D-UA-M8399-0-0				Z129CB.PLS	14
			(I)						
			(J)						
			(K)						
			(L)						
			(M)						
			(N)						

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# PARTS LIST

SHEET 02 OF 03

LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
25	25		1300398-00	1.80 K .25 W 5.0 % CC	1	R20
26	26		1300447-00	4.70 K .25 W 5.0 % CC	2	R12, R39
27	27		1301320-00	1.20 K .25 W 5.0 % CC	1	R16
28	28		1301424-00	680.0 .25 W 5.0 % CC	1	R45, R47, R48, R51, R53, R55, R57
29	29		1301791-00	82.0 .50 W 5.0 % CC	12	R23, R28, R37, R39
30	30		1302091-00	330.0 K .25 W 5.0 % CC	1	R27
31	31		1302612-00	1.79 K .25 W 1.0 % RN55D-F10	1	R14
32	32		1302871-00	1.21 K .25 W 1.0 % RN55D-F10	2	R7, R22
33	33		1302872-00	581.0 .25 W 1.0 % RN55D-F1	2	R1, R2
34	34		1302874-00	147.0 .25 W 1.0 % RN55D-F10	1	R15
35	35		1302941-00	14.70 K .25 W 1.0 % RN55D-F10	1	R16
36	36		1302956-00	195.0 .25 W 1.0 % RN55D-F10	1	R11
37	37		1303312-00	10.0 K .25 W 1.0 % RN55D-F10	1	R13
38	38		1305122-00	51.10 .25 W 1.0 % RN55D-F10	1	R10
39	39		1305125-00	619.0 .25 W 1.0 % RN55D-F10	2	R10, R11
40	40		1309413-00	3.93 K .25 W 1.0 % RN55D-F10	1	R17
41	41		1310634-00	2.67 K .25 W 1.0 % RN55D-F10	1	R5
42	42		1503409-01	DEC6554B PNP 310MW SI 40 90 P	1	R7
43	43		1512499-00	2N 4401 NPN 350MW SI 40 20	1	R4
44	44		1513490-00	2N 4403 PNP 350MW SI 40 30	3	R3, R1, R2
45	45		1603359-00	12.0 UH 10% 300MA .0012.0	2	R1, R2
46	46		1616553-00	DELAY= 50NS, 10TAPS WITH TTLBU	1	R17
47	47		1616553-01	DELAY= 100NS, 10TAPS WITH TTLBU	1	R15
48	48		1811650-12	OSCILLATOR, XTAL 8.200 MHZ	1	R15
49	49		1910532-00	74500 NAND GATE-QUAD 2IN	3	R10
50	50		1910534-00	74504 INVERTER GATE-HEX 1I	3	R10, R109
51	51		1910535-00	74510 NAND GATE-TRIPLE 3IN	1	R10
52	52		1910542-00	74554 A-0-1 GATE 4-2-3-2	7	R10, R10, R10, R10, R10, R10, R10
53	53		1910544-00	74574 FF-D DUAL, EDGE TRIGG	4	R17, R10, R10, R10
54	54		1910549-00	745159 MUX 1 OF 2 (QUAD)	1	R10
55	55		1910550-00	745174 FF-D HEX	2	R10
56	56		1910552-00	745194 SHIFT REG. 4BIT RICH	2	R10, R10
57	57		1910557-00	745175 FF-D QUAD COMMON CLO	2	R10, R11
58	58		1911341-00	75113 DRIVER, LINE, DUAL, MA	8	R21, R23, R42, R44, R53, E114, E132, E133
59	59					CONT
60	61		1911579-00	3641 TRANSCEIVER, BUS, QUA	1	R81
61	62		1911675-00	745139 DECODER/DEMUX 3-8 LIN	1	R58, E71, E72
62	63		1911712-00	74551 AND-OR GATE-INVERT D	2	R20, E103
63	64		1911911-00	DEC 745124 OSCILLATOR, DUAL VOLT	1	E135
64	65		1912399-00	74502 NOR GATE-QUAD 2IN, PO	2	R56, E112
65	66		1912399-00	74508 AND GATE-QUAD 2IN, PO	2	R53, E120
66	67		1912535-00	DEC 7305 VOLT REG. FIX 15V	1	R5
67	68		1912547-00	LS257 MUX 1 OF 2 (QUAD)	2	R11, E32
68	69		1912728-00	745251 MUX 1 OF 8 TRI-STA	3	R54, E94, E135
69	70		1912746-00	DEC 74537 NAND GATE-QUAD 2IN	1	R74
70	71		1912937-00	LS123 ONE SHOT-DUAL RETRIG	1	E123
71	72		1912947-00	LS157 MUX 1 OF 2 (QUAD)	1	E54
72	73		1912972-00	LS377 FF-D 8BIT W/ENABLE	1	E70

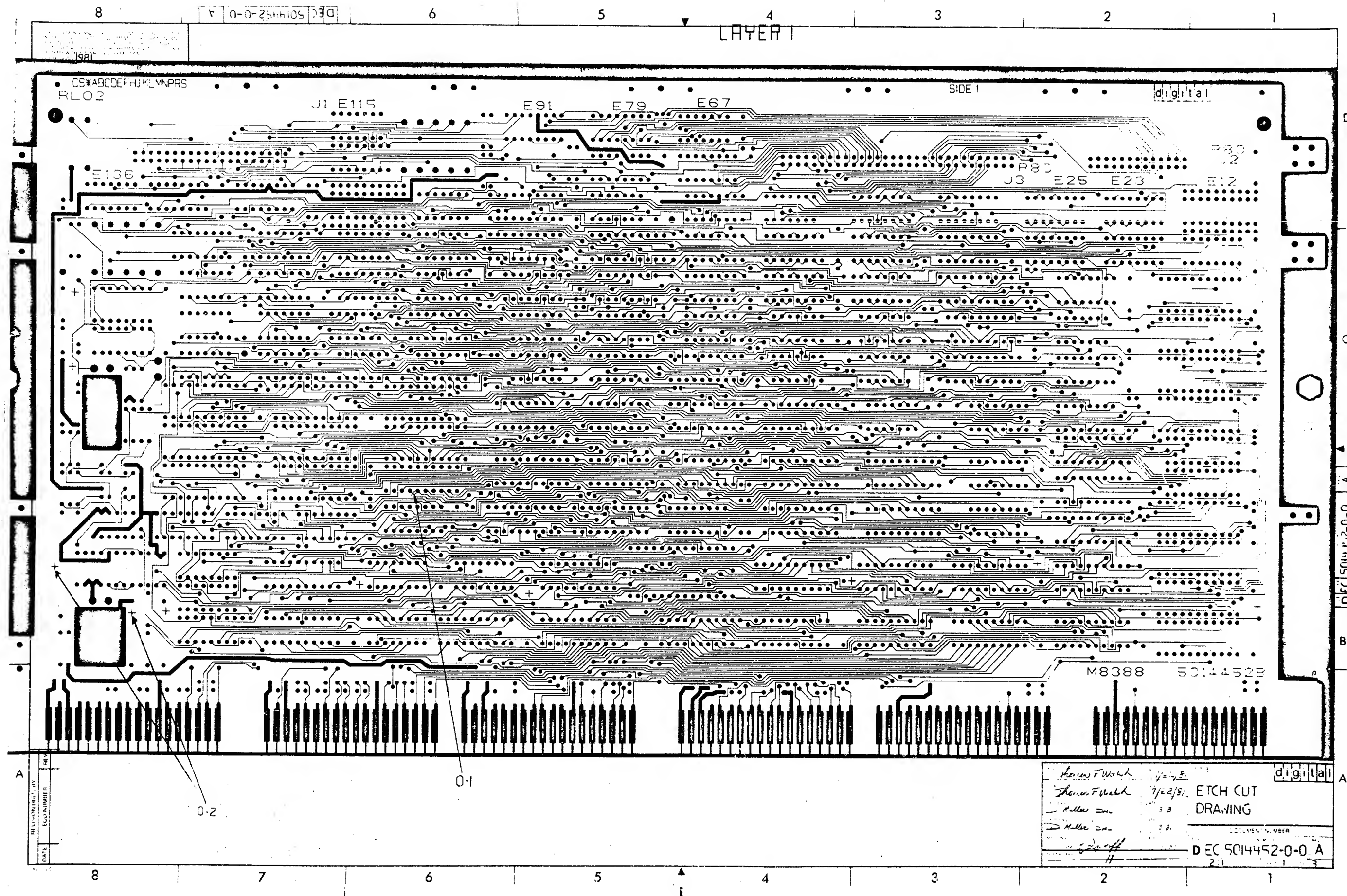
D	I	G	I	T	A	L	TITLE	IDC	SECTION A OF A	SIZE	CODE	DOCUMENT NUMBER	REV
										K	PL	M3388-0-253	2

AUTOMATED BY FRTLST.3P(44)

# PARTS LIST

SHEET A3 OF A3

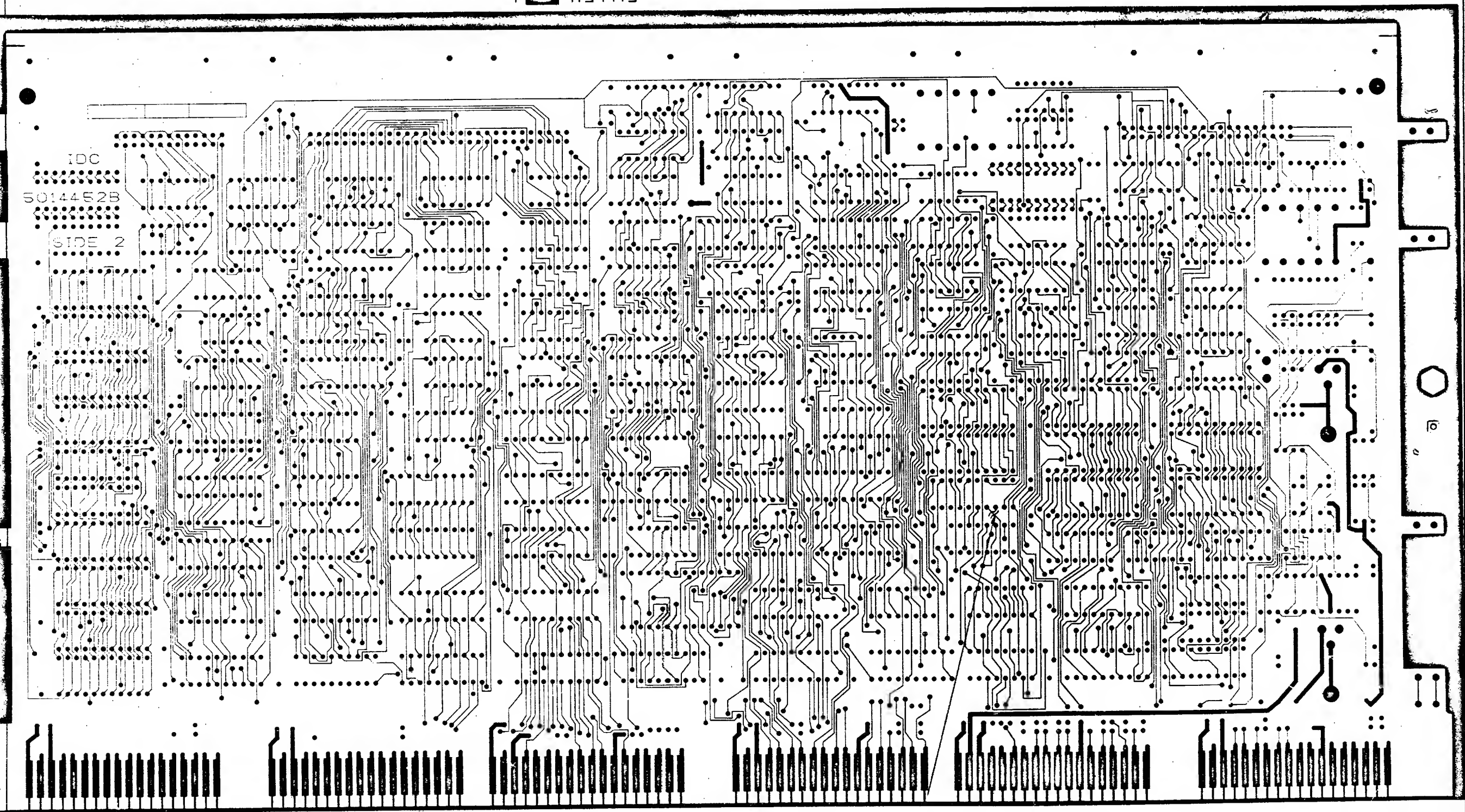
LINE	ITEM	DOCUMENT NUMBER	PART NUMBER	DESCRIPTION	QTY PER VARIATION	REFERENCE DESIGNATOR
73	74		1912951-00	DM 8556 COUNTER, BINARY 4BIT	5	E18, E19, E28-E30
74	75		1913017-00	3046 XSISTOR ARRAY 3 ISOL	1	E134
75	76		1913571-00	745374 FF-D OCTAL TRISTATE	8	E13-E15, E27, E35, E37, E56, E59
76	77		1913777-00	LS240 DRIVER, LINE, OCTAL T	1	E50
77	78		1913939-00	102A EQUALS CHECKER 9BIT	1	E104
78	79		1914082-00	745163 COUNTER, SYNCH UP/COM	2	E116, E124
79	80		1914437-00	7905 VOLT REG, FIX -5V	1	Q5
80	81		1914972-00	3450 RECEIVER, LINE, QUAD,	6	E34, E45, E55, E78, E91, E121
81	82		1915101-00	DCC07 ECC CHIP 25PIN	1	E57
82	83		1915193-00	LS244 DRIVER, LINE, OCTAL T	4	E48, E80, E82, E103
83	84		1915218-00	LS245 TRANSCIVER, BUS, OCT	4	E26, E46, E47, E69
84	85		1915597-00	RAM 256X4 TRI-STATE	8	E1-E4, E7-E10
85	86		2300000-00	K5-01	1	E39
86	87		2300000-00	K5-01	1	E38
87	88		2301000-00	K4-01	1	E6
88	89		2301000-00	K4-01	1	E17
89	90		2301000-00	K4-01	1	E59
90	91		2301000-00	K5-01	1	E61
91	92		2301000-00	K4-01	1	E127
92	93		2301000-00	D2-01	1	E107
93	94		2301000-00	D2-01	1	E105
94	95		2301000-00	D2-01	1	E123
95	96		2301000-00	K4-01	1	E33
96	97		2301000-00	D2-01	1	E93
97	98		2301000-00	K4-01	1	E123
98	99		2301000-00	D2-01	1	E97
99	100		2301000-00	D2-01	1	E126
100	101		2301000-00	D2-01	1	E53
101	102		2301000-00	D2-01	1	E60
102	103		2301000-00	D2-01	1	E76
103	104		2301000-00	D2-01	1	E49
104	105		2301000-00	D2-01	1	E31
105	106		2301000-00	D2-01	1	E16
106	107		2301000-00	D2-01	1	E35
107	108		2301000-00	D2-01	1	E88
108	109		2301000-00	D2-01	1	E33
109	110		2301000-00	D2-01	1	E33
110	111		2301000-00	D2-01	1	E33
111	112		2301000-00	D2-01	1	E33
112	113		2301000-00	D2-01	1	E33
113	114		2301000-00	D2-01	1	E33
114	115		2301000-00	D2-01	1	E33
115	116		2301000-00	D2-01	1	E33
116	117		2301000-00	D2-01	1	E33
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118	119		2301000-00	D2-01	1	E33
119	120		2301000-00	D2-01	1	E33
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121	122		2301000-00	D2-01	1	E33
122	123		2301000-00	D2-01	1	E33
123	124		2301000-00	D2-01	1	E33
124	125		2301000-00	D2-01	1	E33
125	126		2301000-00	D2-01	1	E33
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130	131		2301000-00	D2-01	1	E33
131	132		2301000-00	D2-01	1	E33
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133	134		2301000-00	D2-01	1	E33
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136	137		2301000-00	D2-01	1	E33
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138	139		2301000-00	D2-01	1	E33
139	140		2301000-00	D2-01	1	E33
140	141		2301000-00	D2-01	1	E33
141	142		2301000-00	D2-01	1	E33
142	143		2301000-00	D2-01	1	E33
143	144		2301000-00	D2-01	1	E33
144	145		2301000-00	D2-01	1	E33
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8 7 6 5 4 3 2 1

DATE: 1961  
BY: [illegible]

PC 834AJ



D  
C  
B  
A

DATE: 1961		BY: [illegible]		REV: [illegible]		TITLE: ETCH CUT DRAWING		PART NUMBER: DEC 5014452-0-0		REV: A	
8	7	6	5	4	3	2	1				

8

7 0-0-2544105 DEC 5014452

6

5

4

3

2

1

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REWORK INSTRUCTIONS:

ETCH CUT SIDE 1:

0-1 AT E95-4 0-2 REMOVE "+" SIGNS

ETCH CUT SIDE 2:

0-3 AT E95-4

DEC 5014452 0 0 A

REVISION HISTORY		
DATE	ECO NUMBER	REV.

TITLE  
ETCH CUT DRAWING

DOCUMENT NUMBER		
SIZE CODE	NUMBER	REV.
DEC	5014452-0-0	A
SCALE	NONE	SHEET 3 OF 3

8

7

6

5

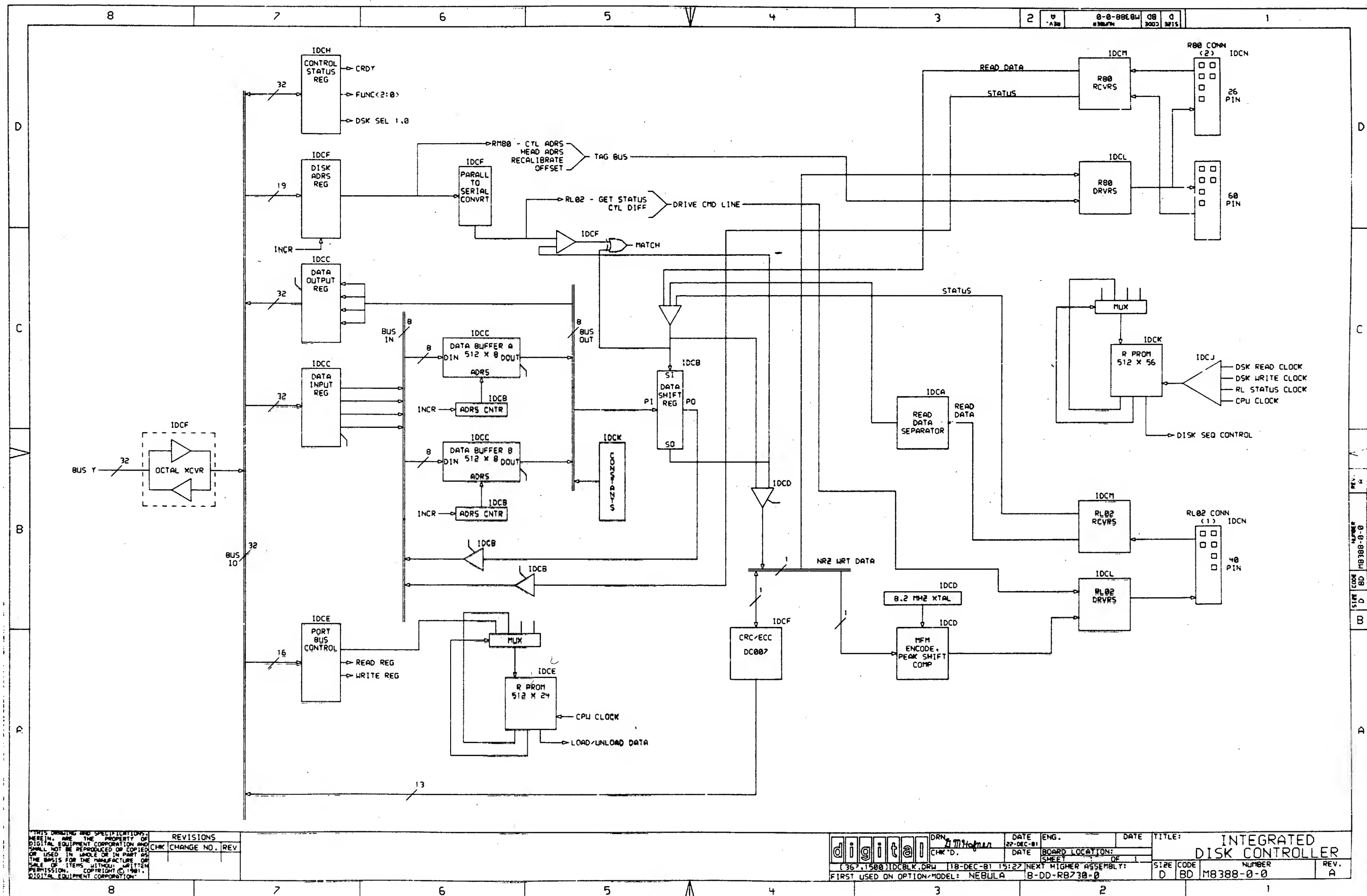
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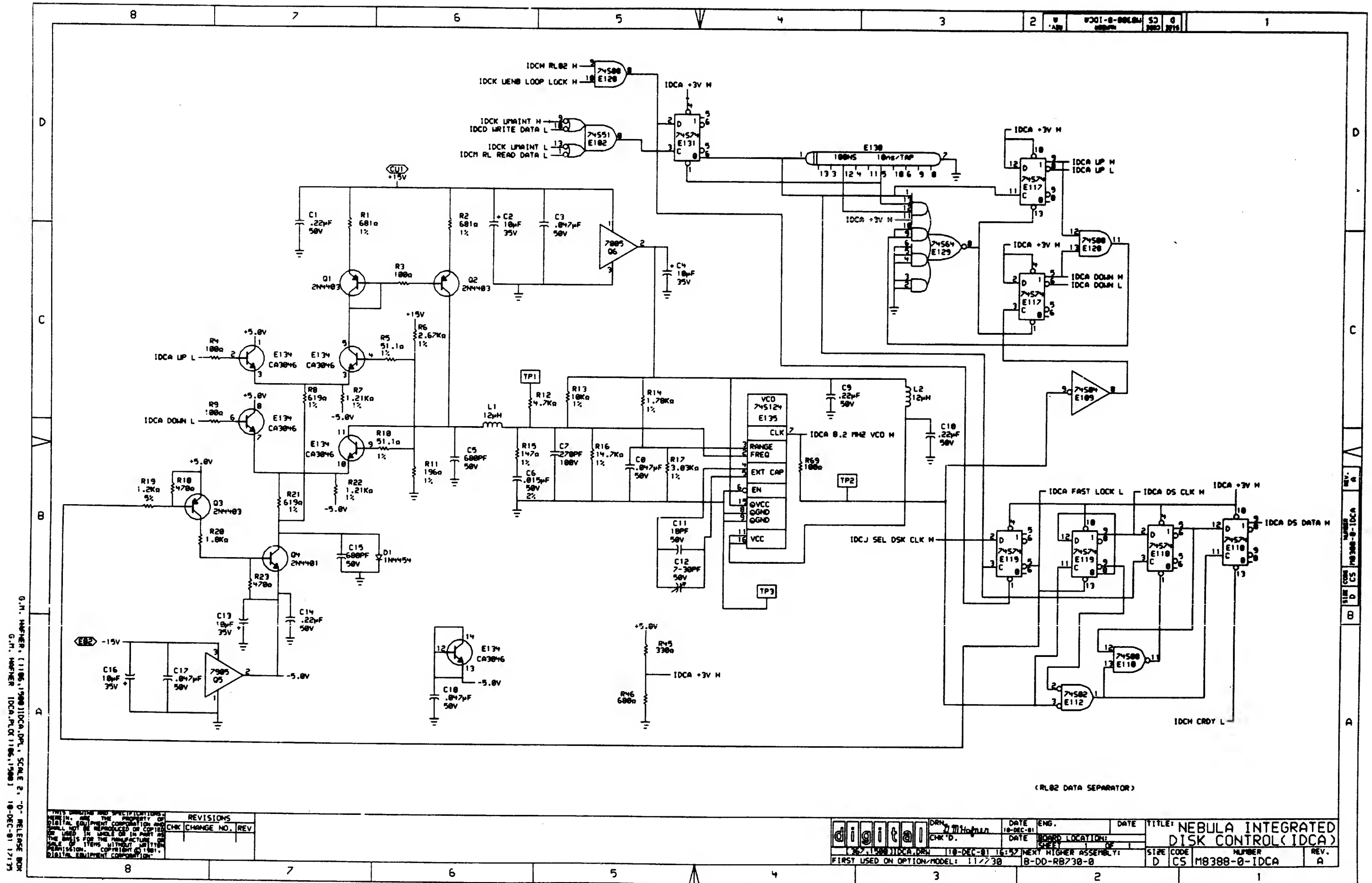


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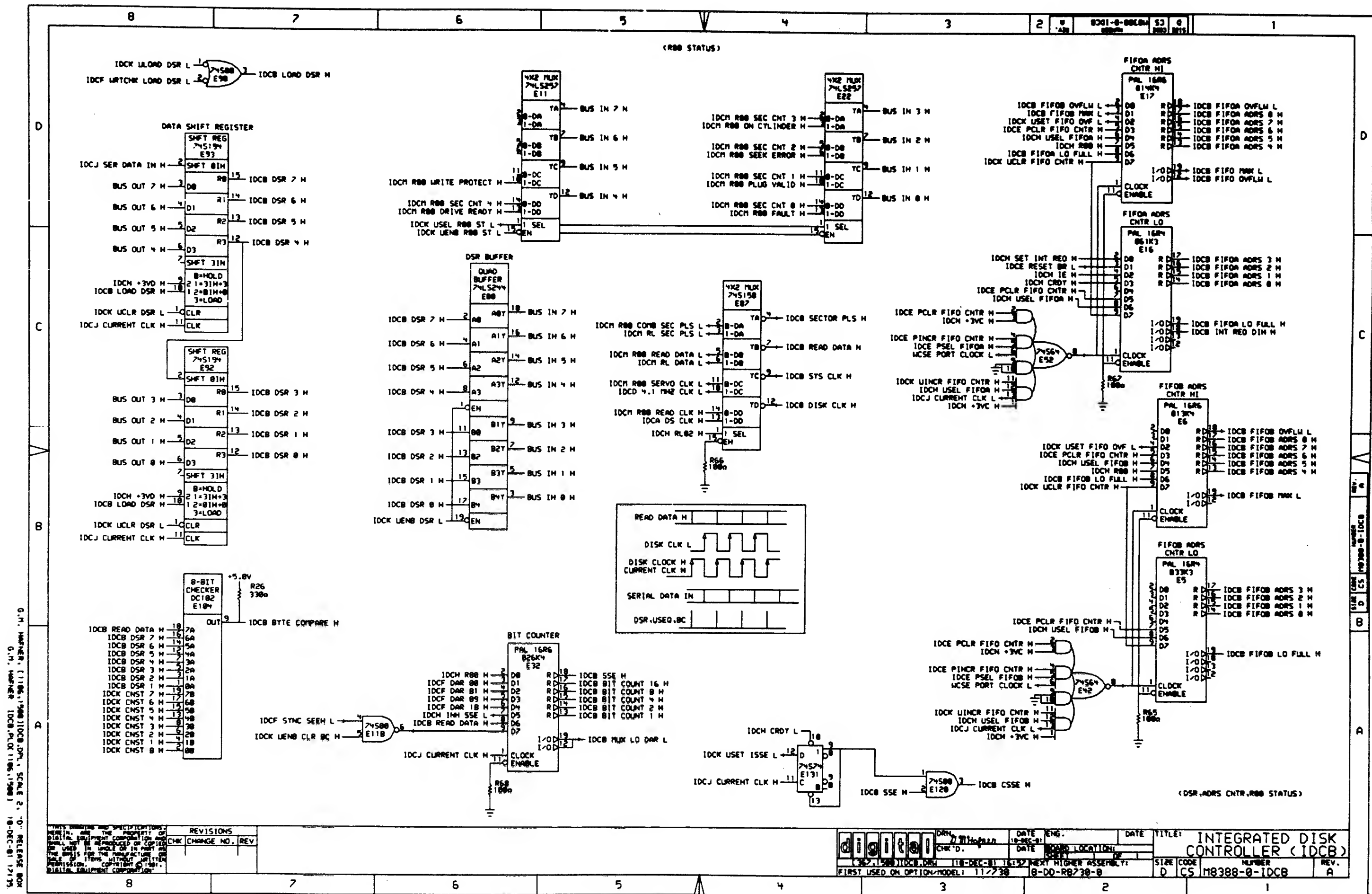
REVISIONS  
CHK CHANGE NO. REV

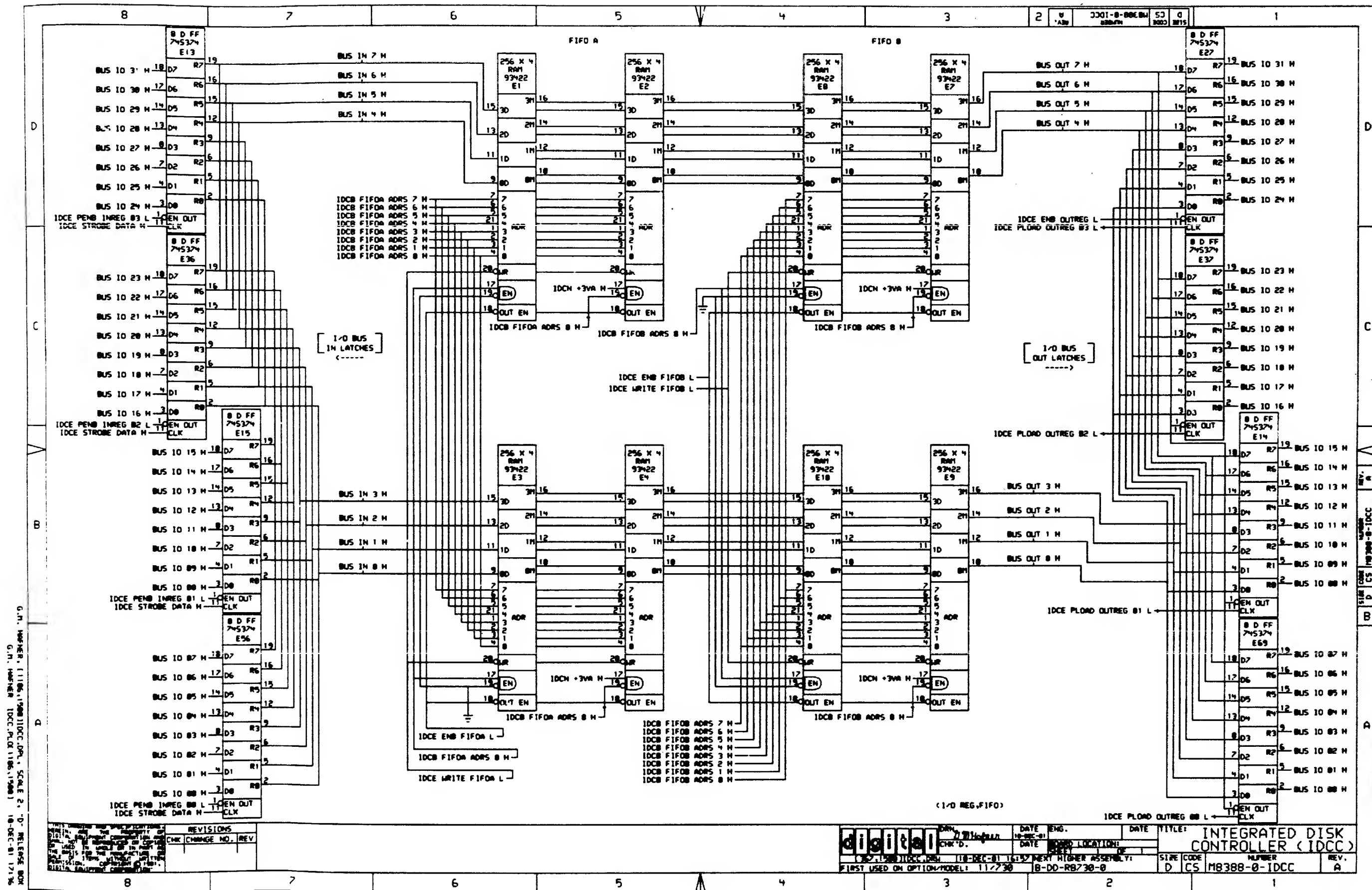
digital  
C357,1500 IDCBLK.DRW 18-DEC-81 15:27 NEXT HIGHER ASSEMBLY: B-DD-RB730-B  
FIRST USED ON OPTION/MODEL: NEBULA

DATE ENG. 27-DEC-81  
DATE BOARD LOCATION: SHEET 1 OF 1  
TITLE: INTEGRATED DISK CONTROLLER  
SIZE CODE D BD M8388-0-0  
NUMBER REV. A

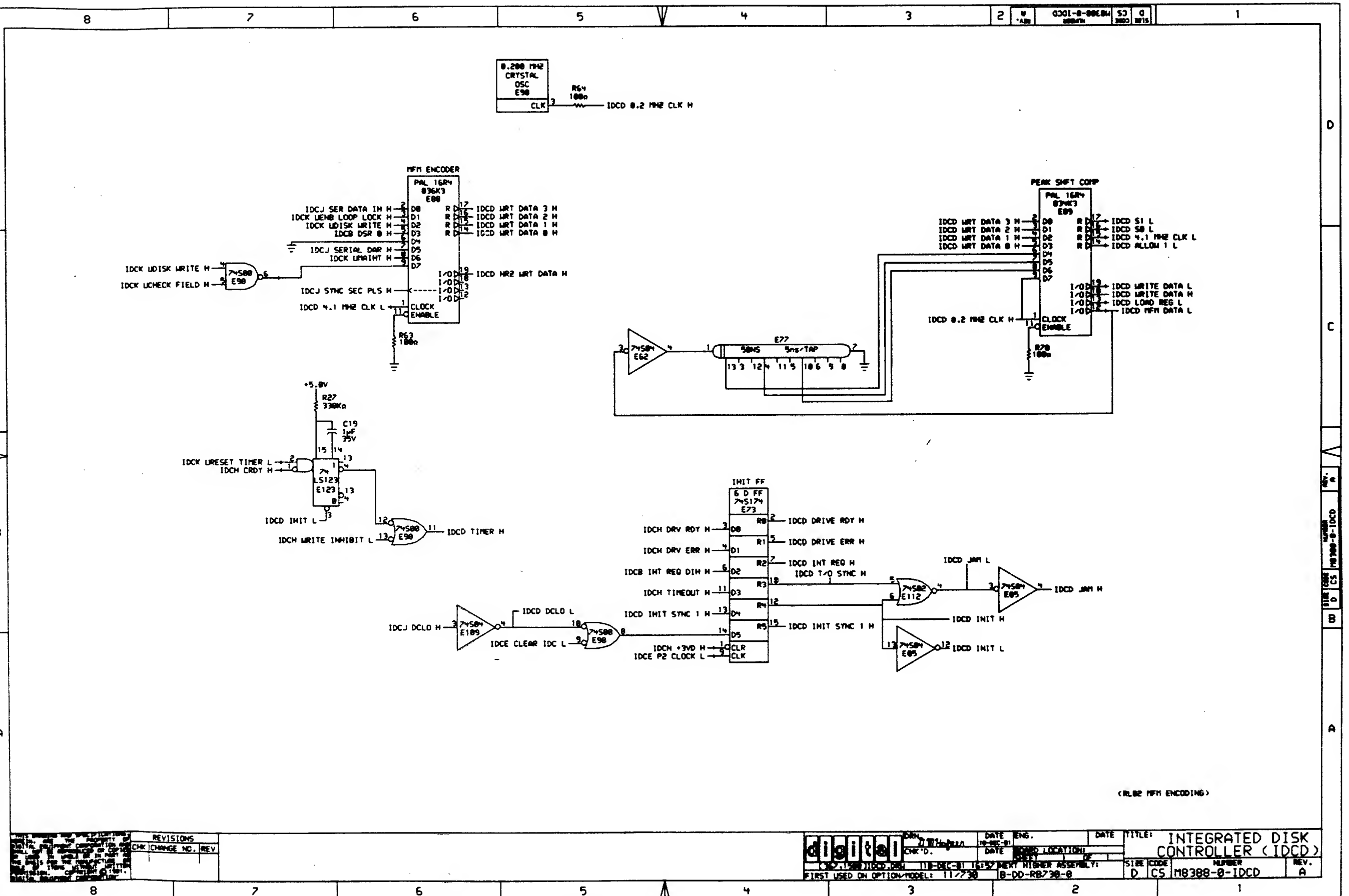


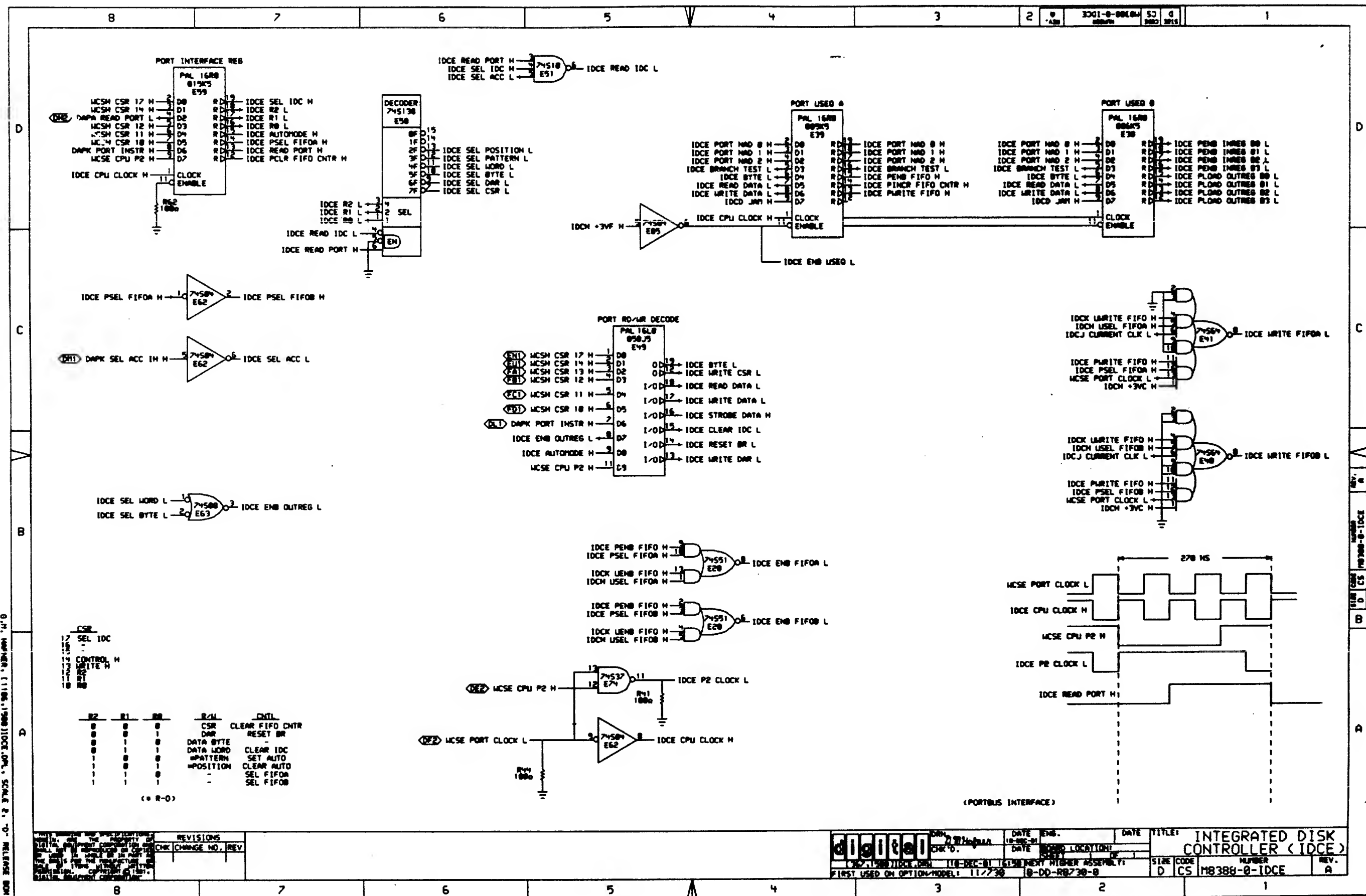


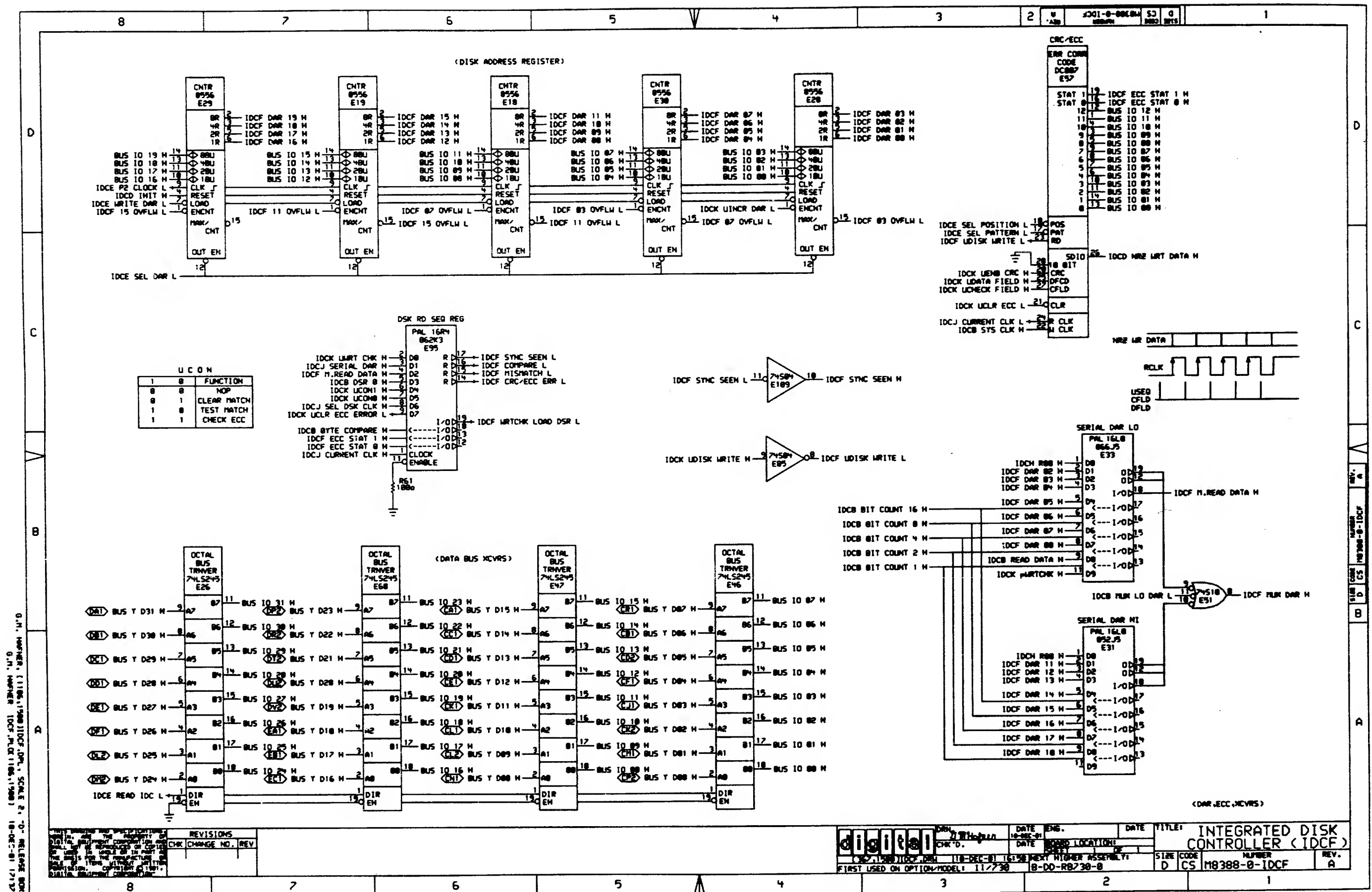


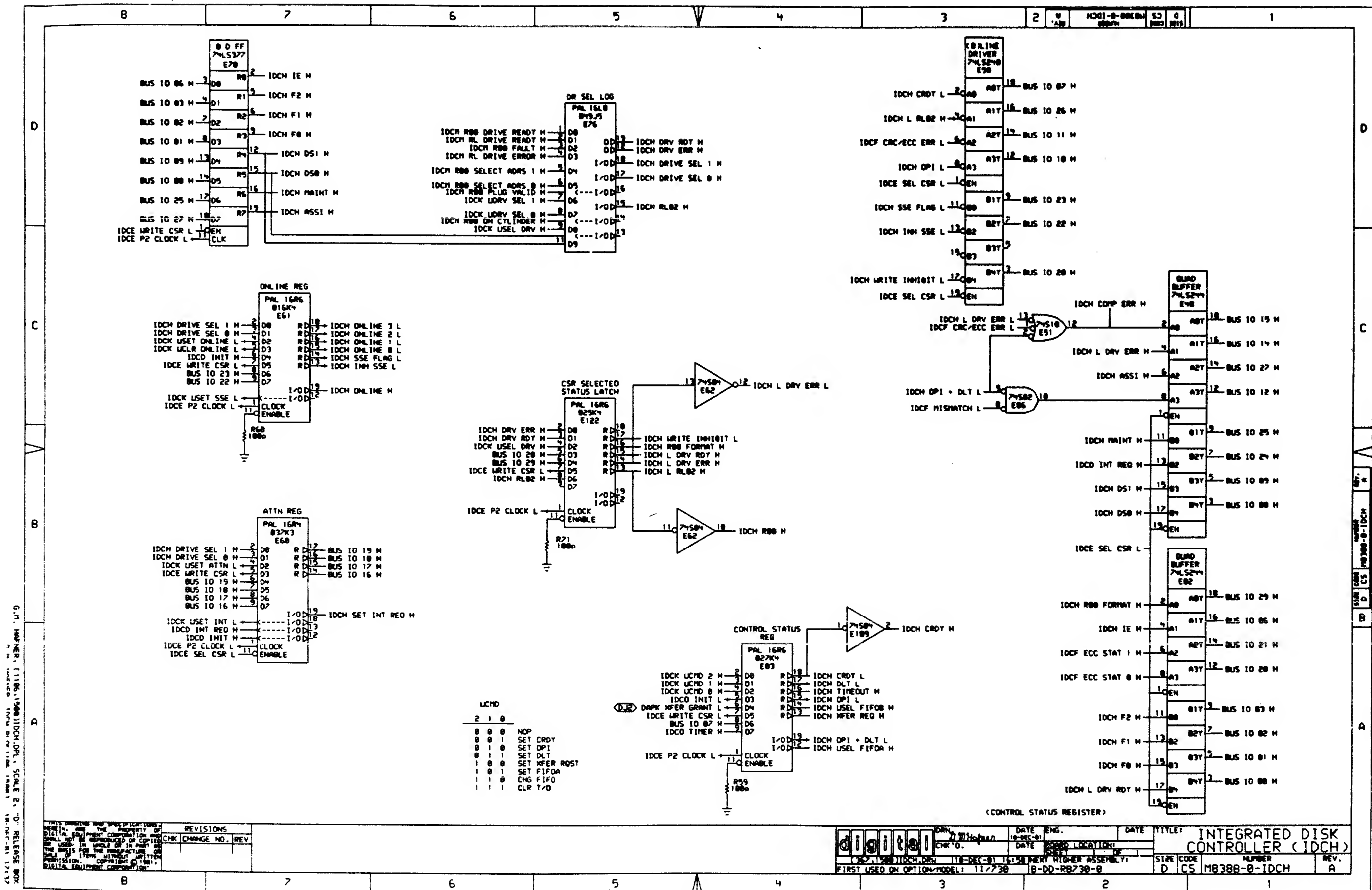


G.M. HARNER, (1186,11900)ICCD,CP1, SCALE 2, 10-DEC-81 RELEASE 80H  
G.M. HARNER ICCD,PLD(1186,11900) 10-DEC-81 17136



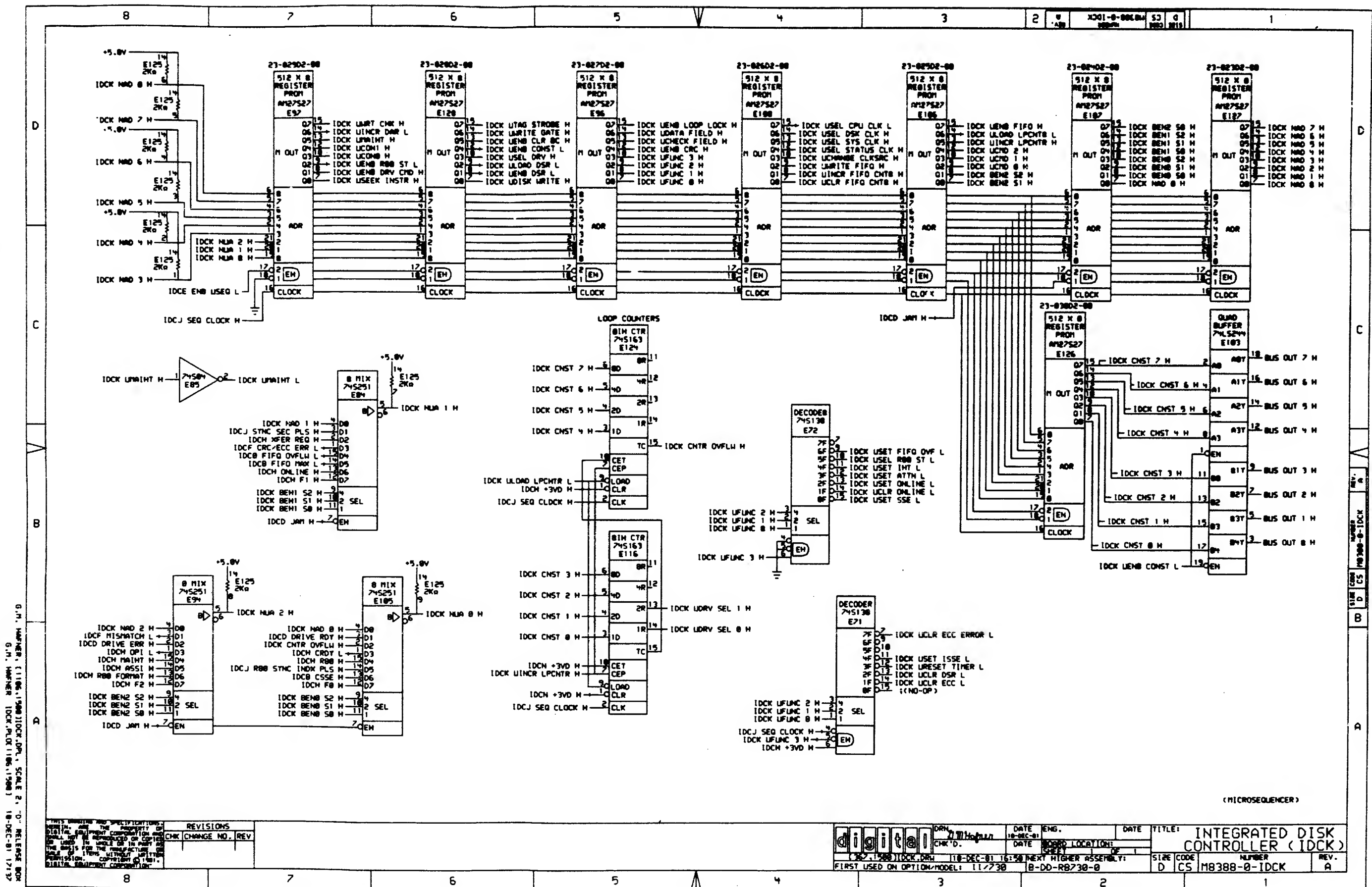


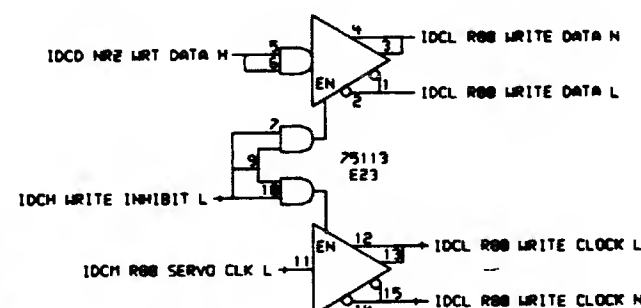
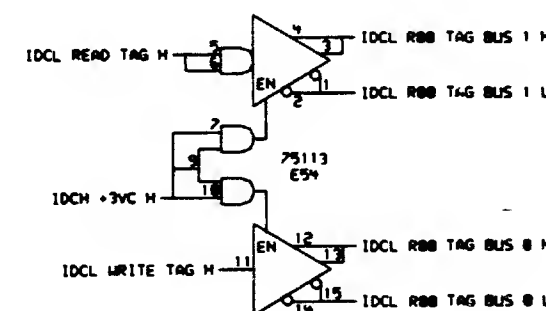
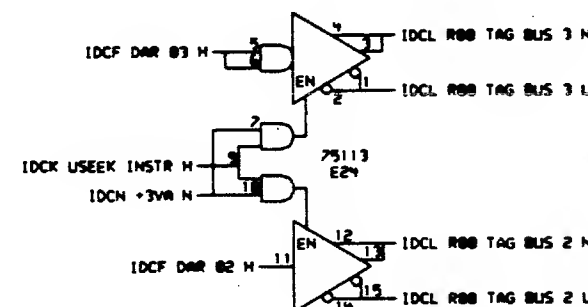
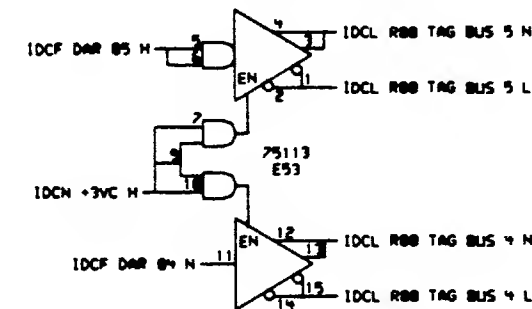
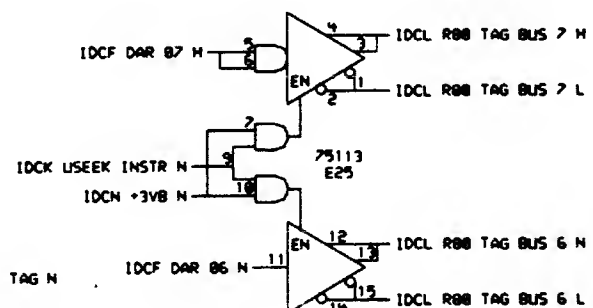
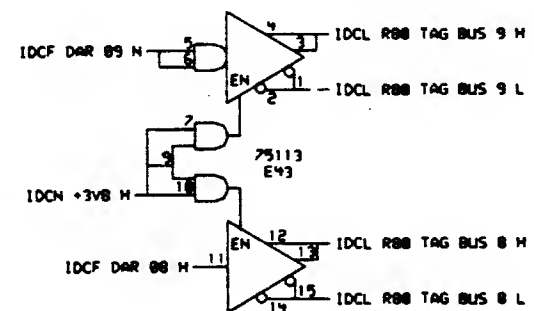
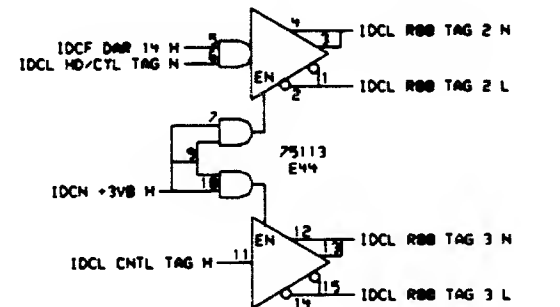
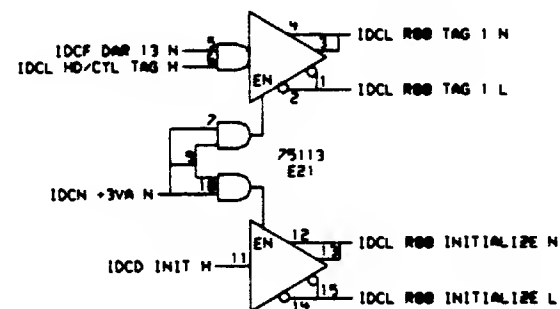
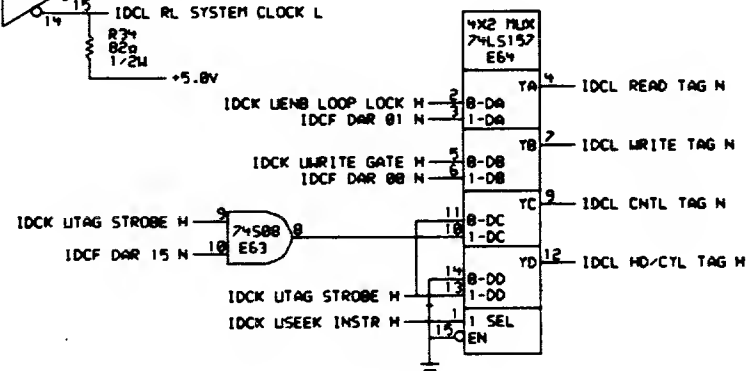
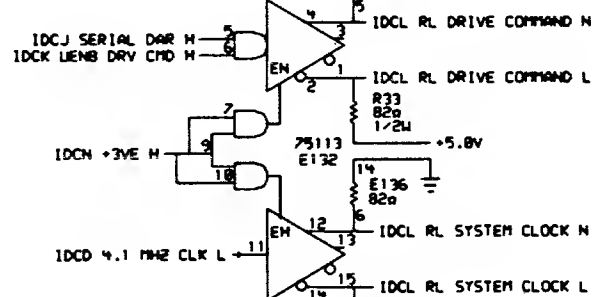
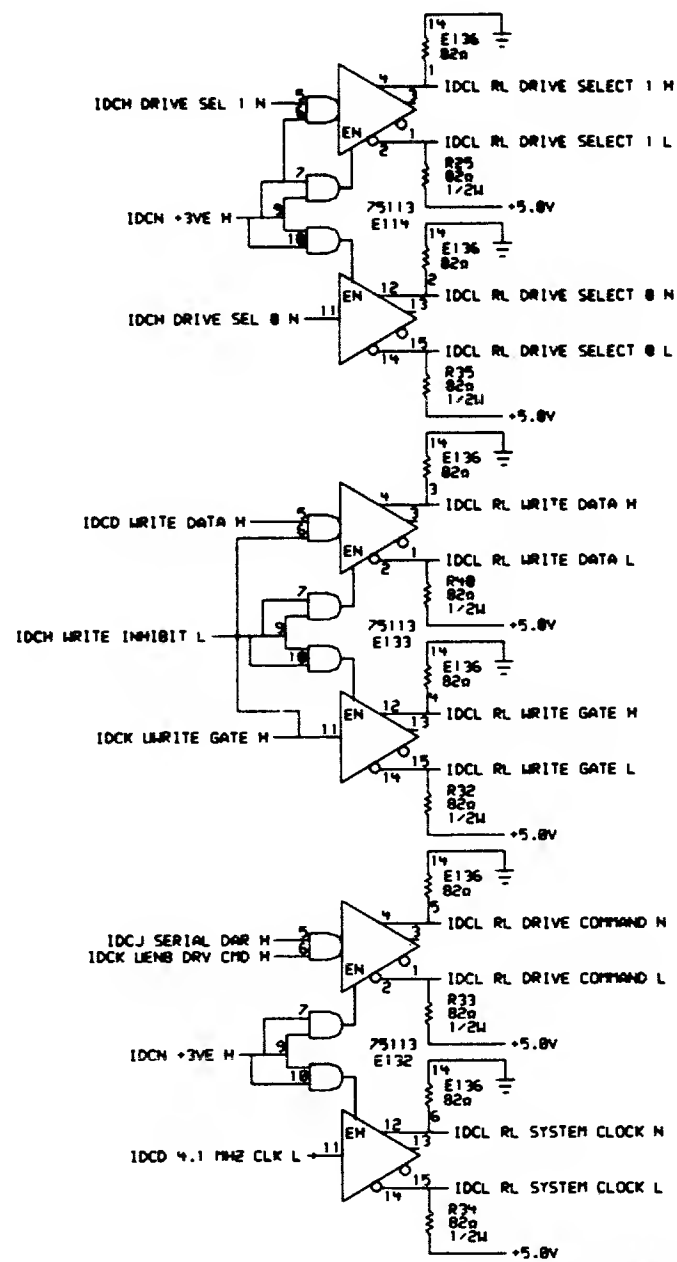










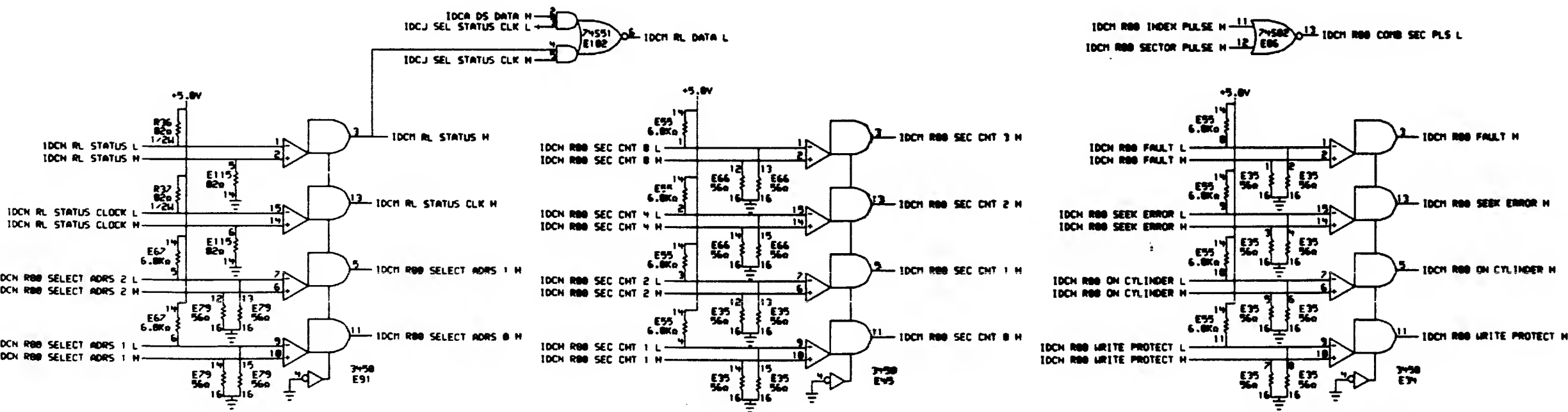
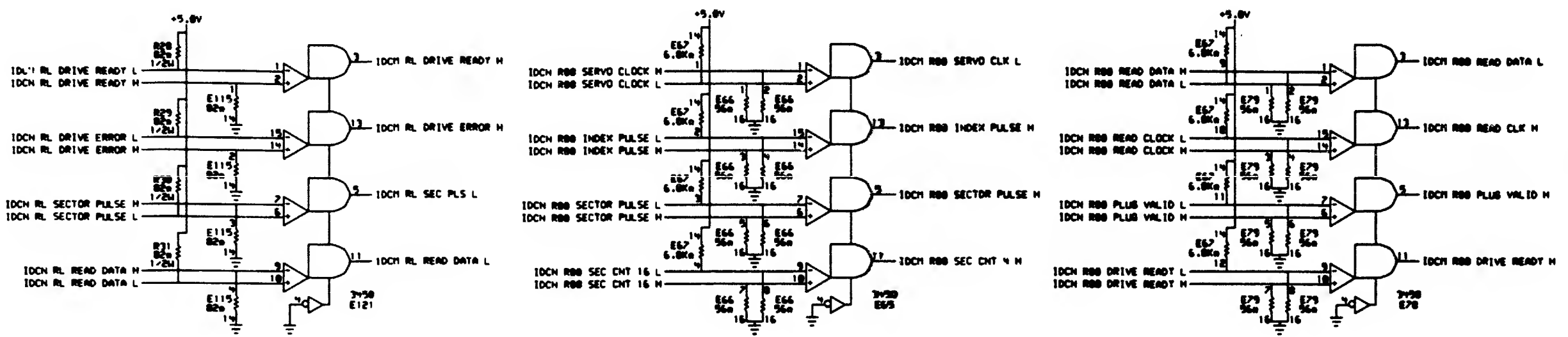


(RL02/R00 DRIVERS)

REVISIONS	CHG	CHANGE NO.	REV
1			

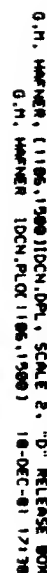
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CHK'D.	DATE 10-DEC-81	BOARD LOCATION: 10-DEC-81	DATE 10-DEC-81	SIZE CODE D CS
FIRST USED ON OPTION/MODEL: 11/730	DATE 10-DEC-81	DATE 10-DEC-81	DATE 10-DEC-81	NUMBER M8388-0-IDCL
				REV. A

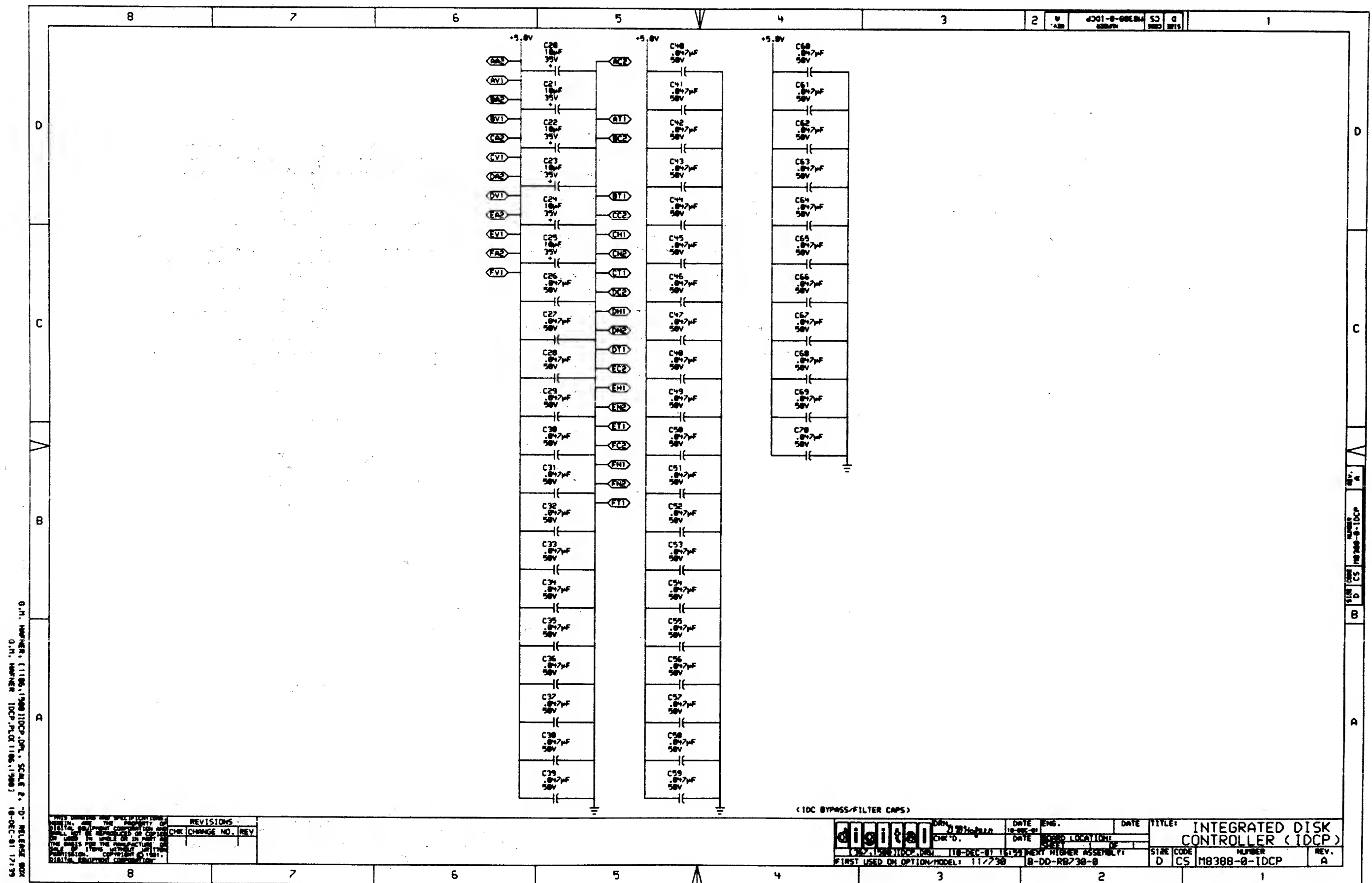
G.M. WARNER, 11/85, 1988 IDCL.DRW, SCALE 2, "D" RELEASE BOX  
G.M. WARNER, 10/85, 1988 IDCL.PLC, 11/85, 1988, 10-DEC-81 17:30



(RL02/R00 RECEIVERS)  
(NOTE: 560 & 6.0K RESISTORS ARE 13-00005 RES PACKS)

G.M. HARTER, (1106-1500) IDCH.DP, SCALE 2:1, RELEASE BOX  
G.M. HARTER, IDCH.PLC, (1106-1500) 18-DEC-81 17:30





digital	OWN	DATE	ENG.	DATE	TITLE: INTEGRATED DISK CONTROLLER (IDCN)
	CHG'D	10-DEC-81			
		WORK LOCATION:			
32100 IDCN.DWN		10-DEC-81 16:55 NEXT HIGHER ASSEMBLY:		SIZE	CODE
FIRST USED ON OPTION MODEL: 11730		B-DD-RB730-0		D	CS
				NUMBER	REV.
				M8388-0-IDCN	A

